Bruhat Bangalore Mahanagara Palike
Excecutive Engineer Yelahanka Project Division

Name of Work: Improvements to Park beside to Ganesha Temple Sahakara Nagara in Ward no. 08

DETAILED QUANTITY CALCULATION & COST ESTIMATE

Item No.	Description	Unit	No.	Length, m	Width, m	Depth, m	Quantity	Rate, Rs	Amount, Rs
A	**Civil Works**								
1	KSRRB 300-1. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications. Specification No. 301. (P.No.143, I.No.19.1 of PW, P&IWTD SR 2018-19)								
	Basic Rate	130.00							
	Add Area weightage of 6%	7.80							
	Sub Total	137.80							
	load unloading 8km lead & lift	82.60	77.28						
	Total	220.40	215.28						
		Cum							
	For Chain Link Fencing							215.28	
	Chain Link Fencing		28	0.60	0.60	0.70	7.06		
							7.06	**220.40**	**1555.14**
2	**KSRRB M300-Construction of Embankment with Material Gravel/Murrum** KSRRB M300-53. Construction of embankment with approved material Gravel /Murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300-2 complete as per specifications, including cost of gravel / murrum, watering charges & compaction by vibratory roller to 95% of proctors density. MORTH Specification No. 305. (P.No.147, I.No.19.60 of PW, P&IWTD SR 2018-19)								1519.8
	Basic Rate	325.00							
	Add Area weightage of 6%	19.50							
	Sub Total	344.50							
		Cum							
	For Benches		15	1.80	1.50	0.20	8.10		
	For Platform		1	20.00	1.60	0.20	6.40		
	For Platform Extension		1	15.00	2.00	0.20	6.00		
	For Platform Extension		1	10.00	3.00	0.20	6.00		
	For Pathway		1	16.00	2.00	0.20	6.40		
							32.90	**344.50**	**11334.05**
3	KSRB 4-1.3 : Providing and laying in position **plain cement concrete of mix 1:4:8** with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2 (P.No.13, I.No.4.3 of PW, P&IWTD SR 2018-19)								
	Basic Rate	5102.00							
	Add Area weightage of 6%	306.12							
	Sub Total	5408.12							
		Cum							
	For Chain Link Fencing								
	Chain Link Fencing		28	0.50	0.50	0.15	1.05		
	For Benches		15	1.80	1.50	0.10	4.05		
	For Platform		1	20.00	1.60	0.15	4.80		
	For Platform Extension		1	15.00	2.00	0.15	4.50		
	For Platform Extension		1	10.00	3.00	0.15	4.50		
	15% Walking Path Damaged portion		0.15	460.00	3.40	0.15	35.19		
							54.09	**5408.12**	**292525.21**

m No.	Description	Unit	No.	Length, m	Width, m	Depth, m	Quantity	Rate, Rs	Amount, Rs
4	KSRB 4-1.5 : Providing and laying in position plain cement concrete of Mix M20 with OPC @ 300kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes @ 0.43cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No.13, I.No.4.5 of PW, P&IWTD S.R 2018-19)								
	Basic Rate	5328.00							
	Add Area weightage of 6%	319.68							
	Sub Total	5647.68							
		Cum							
	For Chain Link Fencing								
	Chain Link Fencing		28	0.40	0.40	0.50	2.24		
	Walking Path		1	460.00	3.20	0.10	147.20		
							149.44	**5647.68**	**843989.30**
5	Providing **chain link fencing** 50mm size of 8 guage properly stretched between existing rectangular poles and fixed with suitable bolts & nuts, the free ends shall be welded to the pole and block pipe at top and bottom as required including cost of all materials, labour, lead and lifts and as per the directions of the Engineer-in-charge of work including two coats of approved quality paint over one coat of shop paint. (P.No.266, I.No.37.3 of PW, P&IWTD SR 2018-19)								
	Basic Rate	715.00							
	Add Area weightage of 6%	42.90							
	Sub Total	757.90							
		Sqm							
	Chain Link Fencing		1	22.00		2.10	46.20		
			1	20.50		2.10	43.05		
			1	16.00		2.10	33.60		
							122.85	**757.90**	**93108.02**
6	Supplying and fixing **M.S. Rectangular poles** made out of 2 equal angles of 65x65x6 mm welded together and fixed in CC (1 :2:4) WITH 2 NOS 16mm dia M.S. hold fast rods each of length 25 ems. Including cost of all materials cutting, bending scaffolding wherever necessary, nicely finishing the welded joints with all lead lifts and as per the directions of the Engineer-in - charge of the work and including providing 2 coats of approved quality paint over one coat of shop painting (excluding cost of earthwork and concrete) (P.No.266, I.No.37.2 of PW, P&IWTD SR 2018-19)								
	Basic Rate	859.00							
	Add Area weightage of 6%	51.54							
	Sub Total	910.54							
	Chain Link Fencing	**m**	28	2.60			72.80		
							72.80	**910.54**	**66287.31**
7	Providing and fixing **M.S. Block pipe** of 38mm dia, of heavy guage of 14 including removing the bends, cutting the pipe, and fixing pipe in between the existing two verticle poles (M.S. rectangular poles) and spot welding the chain link with M.S. block pipe including cost of all materials wastage in cutting, and scaffolding wherever necessary with all lead and lift as directed by the Engineer-in-charge of work etc., complete including two coats of approved quality paint over one coat of shop paint. (P.No.266, I.No.37.4 of PW, P&IWTD SR 2018-19)								
	Basic Rate	408.00							
	Add Area weightage of 6%	24.48							
	Sub Total	432.48							
		m							
	Chain Link Fencing		3	22.00			66.00		
			3	20.50			61.50		
			3	16.00			48.00		
							175.50	**432.48**	**75900.24**

	Description	Unit	No.	Length, m	Width, m	Depth, m	Quantity	Rate, Rs	Amount, Rs
8	Providing and laying/fixing cement base, precast, pre polished cement concrete, designer tiles 25mm thick for flooring conforming to IS 1237 heavy duty tiles for flooring, treads of steps and landing, laid on a bed of 12mm thick cement mortar 1:3 mis finished with flush pointing using white cement, including cost of materials, including cutting, griding the edge to half/full round wherever required, labour, curing complete as per specification. (P.No. 112, I.No. 14.62 of PWD SR 2018-19)								
	Basic Rate	1232.00							
	Add Area weightage of 6%	73.92							
	Sub Total	1305.92							
		Sqm							
	For Benches		15	1.80	1.50		40.50		
	For Platform		1	20.00	1.60		32.00		
	For Platform Extension		1	15.00	2.00		30.00		
	For Platform Extension		1	10.00	3.00		30.00		
							132.50	**1305.92**	**173034.40**
9	KSRB 14.6 : Providing and laying heavy duty cobble stones interlock pavers, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM complete as per specifications. Specification No. KBS (P.103/I.14.6) PWD SR 2018-19, 60mm thick								
	Basic Rate	1053.00							
	Add Area weightage of 6%	63.18							
	Sub Total	1116.18							
		Sqm							
	For Pathway		1	16.00	2.00		32.00		
							32.00	**1116.18**	**35717.76**
10	Providing and fixing pre cast solid cement concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.,complete. (P.No.27, I.No.5.30 of PW, P&IWTD SR 2018-19)								
	Basic Rate	408.00							
	Add Area weightage of 6%	24.48							
	Sub Total	432.48							
		Nos							
	For Walking Track missing		2	115.00			230.00		
	For Platform		1	22.00			22.00		
			1	16.00			16.00		
	For Pathway		2	16.00			32.00		
	For Benches		15	4.00			60.00		
	A					**A**	**360.00**		
	B=A/.045					**B**	**800.00**	**432.48**	**345984.00**
11	KSRRB 800-1. **Painting two coats** after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8. (P.No.180, I.No.24.1 of PW, P&IWTD SR 2018-19)								
	Basic Rate	80.00							
	Add Area weightage of 6%	4.80							
	Sub Total	84.80							
		Sqm							
	For Walking Track missing		2	360.00	0.30		216.00		
	For Platform		1	22.00	0.30		6.60		
			1	16.00	0.30		4.80		
	For Pathway		2	16.00	0.30		9.60		
	For Benches		15	4.00	0.30		18.00		
							255.00	**84.80**	**21624.00**

No.	Description	Unit	No.	Length, m	Width, m	Depth, m	Quantity	Rate, Rs	Amount, Rs
	Providing and fixing polished gray granite slab benches of size 5 ftwidth of seating slab with bottom slab of 75mm thick width 1.50ft with back rest slab of 50 mm thick with 1.50ft depth, side and slab of 100mm thick 2.50 ft height including bull nosing of all edges including fixing in CC 1:2:4 including loading and unloading as per design, specification and fixing as per the directions of the engineer in charge.								
	Data Rate	10550.00							
		Unit	15				15.00		
							15.00	**10550.00**	**158250.00**
13	PROVIDING TRAPEZOIDAL PROFILED SHEET Providing and installing of pre painted Galvolume iron Trapezoidal profiled sheet of approved make 1060 mm width (1000 mm cover width), 28-30 mm crest height with crest distance of 200 mm c/c with 2 ribs at the centre for stiffening. The total coated thickness (TCT) of the sheet will be 0.47 mm +/- 0.02 mm tolerance Zinc-Alu Alloy coating AZ150 gsm as per ASTM 1397/A755-550 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 20-22 microns using self drilling/self tapping screws of 25 mm length, to be fixed over the existing purlins, rafters, channels and trusses. (P.No.299, I.No.38.30 of PW, P&IWTD SR 2018-19)								
	Basic Rate	688.00							
	Add Area weightage of 6%	41.28							
	Sub Total	729.28							
		Sqm							
	Chainlink Fencing		2	16.00	2.00		64.00		
			2	22.00	2.00		88.00		
							152.00	**729.28**	**110850.56**
								Total Cost of Construction, Rs.	**2230159.99**
								12% GST	**267619.20**
								Sub total	**2497779.19**
								Rounding Off, Rs.	**2220.81**
								Total Project Cost, Rs.	**2500000.00**

2230159.99
267614.39
2497739.55
2260.44

Certificate

1. The workspot was inspected and works is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike limits.
3. The rates adopted based on the PWD SR,Bangalore circle for year 2018-2019.and Data Rates

Assistant Engineer,
Yelahanka Project Division

Asst. Exec. Engineer,
Yelahanka Project Division

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

Executive Engineer,
Yelahanka Project Division 6/6/19

Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore-92

Administrative Sanction for Rs. 25.00 Lakh
Twenty five lakh only
is accorded under head P0541
Registered as CE No. BBMP/CE/YZ/PR/39/19-20 Subject
to conditions contained in enclosed memo
No. BBMP/CE/AS/YZ/39/19-20 Dt. 15.06.2019

TECHNICAL ASSISTANT

CHIEF Engineer

TECHNICALLY SANCTIONED FOR Rs. 25.00 lakhs
Rupees Twenty five lakhs only
Under 0541
Registered as CE ( ) No. 33
Subject to conditions contained in
enclosed memo CE ( ) No. BBMP/CE/TS/YZ/PR/33/19-20
Dt. 15.06.2019 Estimate A/ Sanctioned
Dated No.
Rs.